FY DIPLOMA – EEC (SEM 2)
IMP QUESTIONS

2 Marks Questions

1)Define Faraday's first and second law.
2)Define:- Form factor, peak factor, period, frequency.
3)Draw 3-phase voltage waveform of A.C supply.
4)Working Principle of transformer.
5)Application of DC series Motors.
6)Define transformation Ratio.
7)Any 2 methods of reducing earth resistance.
8)Give Application of: Universal motor, Stepper motor.
9)State types of single phase induction motors.
10)List types of fuse.

4 Marks Questions

1)Draw and explain B-H curve.
2)Compare : a)Star and Delta connection.
b)Auto transformer and two winding transformer
c) Magnetic and electric circuit.
3)Near diagram and explain Lenz law.
4) Working Principle of DC motor with diagram.
5)Explain operation of capacitor start and capacitor run motor.
6)Explain importance of earthing
7)Explain Fleming right hand rule.
8)Write any 2 application of: a)DC shunt, series and compound motor.
9) Explain principle of operation of universal motor with neat diagram.
10) Explain working of fuse with diagram.
11) Explain the concept of lagging and leading phase angle by waveform.
12)List parts of DC motor give function of parts.
13)Draw and explain split phase induction motor.
14)Give the working of MCCB.
15)Explain working of shaded pole induction motor.
16)Give function of fuse and switch.
17)Draw sketch of auto transformer. State it's advantages and applications.
18)State advantages of poly-phase circuit over single phase circuit.

6 Marks Questions.

1) Numerical to find peak value, RMS value, phase angle, angular frequency, frequency, time period, form factor, peak factor.
2)Give importance of earthing.
3) Application of fuse, MCB, MCCB.
4) Working Principle of stepper motor and explain any one type with neat sketch.
5) Explain with neat diagram operation of ELCB and 2 applications.
6)Explain need of Earthing. State types of earthing and give 2advantages of earthing.
7) Explain fuse and ELCB.